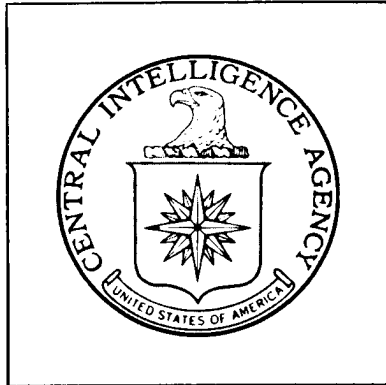


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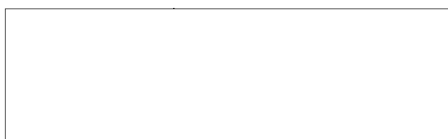
Basic Imagery Interpretation Report

Chi-nan Chemical Plant

Chi-nan, China



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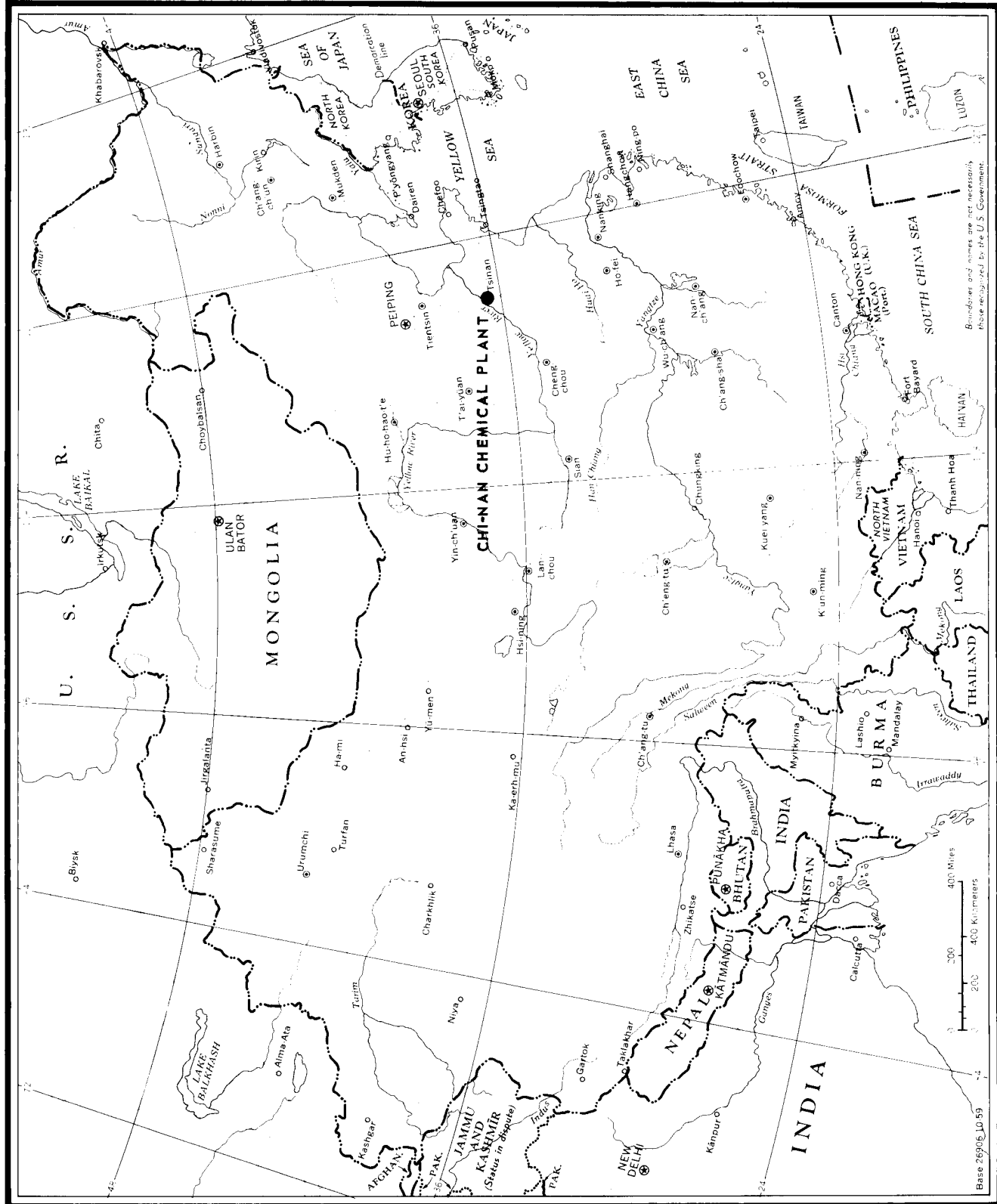



FIGURE 1. LOCATION MAP.

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INTRODUCTION

Chi-nan Chemical Plant is located about 3 nautical miles northeast of the center of Chi-nan, Shantung Province (see Figure 1). The plant is immediately northwest of the Chi-nan Industrial Explosives and Detonator Plant  Electric power is supplied by the regional grid.

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BASIC DESCRIPTION

Physical Features

The plant occupies a rectangular walled area which measures about 2,380 by 1,120 feet and contains 60 acres (see Figures 2 and 3). It is served by a spur from the Chi-nan to Chien-ta-chuang rail line.

Operational Functions

The primary product of the plant is superphosphate fertilizer. The sulfuric acid necessary for this production is manufactured at the plant. The flow process for the plant is shown in Figure 4.

Collateral reports indicate that the plant produces phosphate derivatives, primarily monobasic (sodium biphosphate) and tribasic sodium phosphates (trisodium phosphate). 1,2/ Facilities for the manufacture of these derivatives cannot be identified on photography as no specialized buildings or equipment are required. There are buildings in Area D, however, which appear suitable for the manufacture of these products.

Construction Chronology

The plant was first observed in March 1959 but the quality of the photography precluded detailed analysis of the facilities. When the plant was observed on photography of September 1963, the phosphate ore storage and crushing buildings, a chamber process sulfuric acid/phosphoric acid section, and most of the support/storage buildings were present. Between September 1963 and January 1965 a contact process sulfuric acid facility was completed, and by October 1966 a superphosphate den building was completed. On photography of October 1967, part of the chamber process sulfuric acid/phosphoric acid production section had been dismantled. By September 1968 a mixing section and fertilizer warehouse had been constructed. Only minor support facilities were constructed between September 1968 and June 1970.

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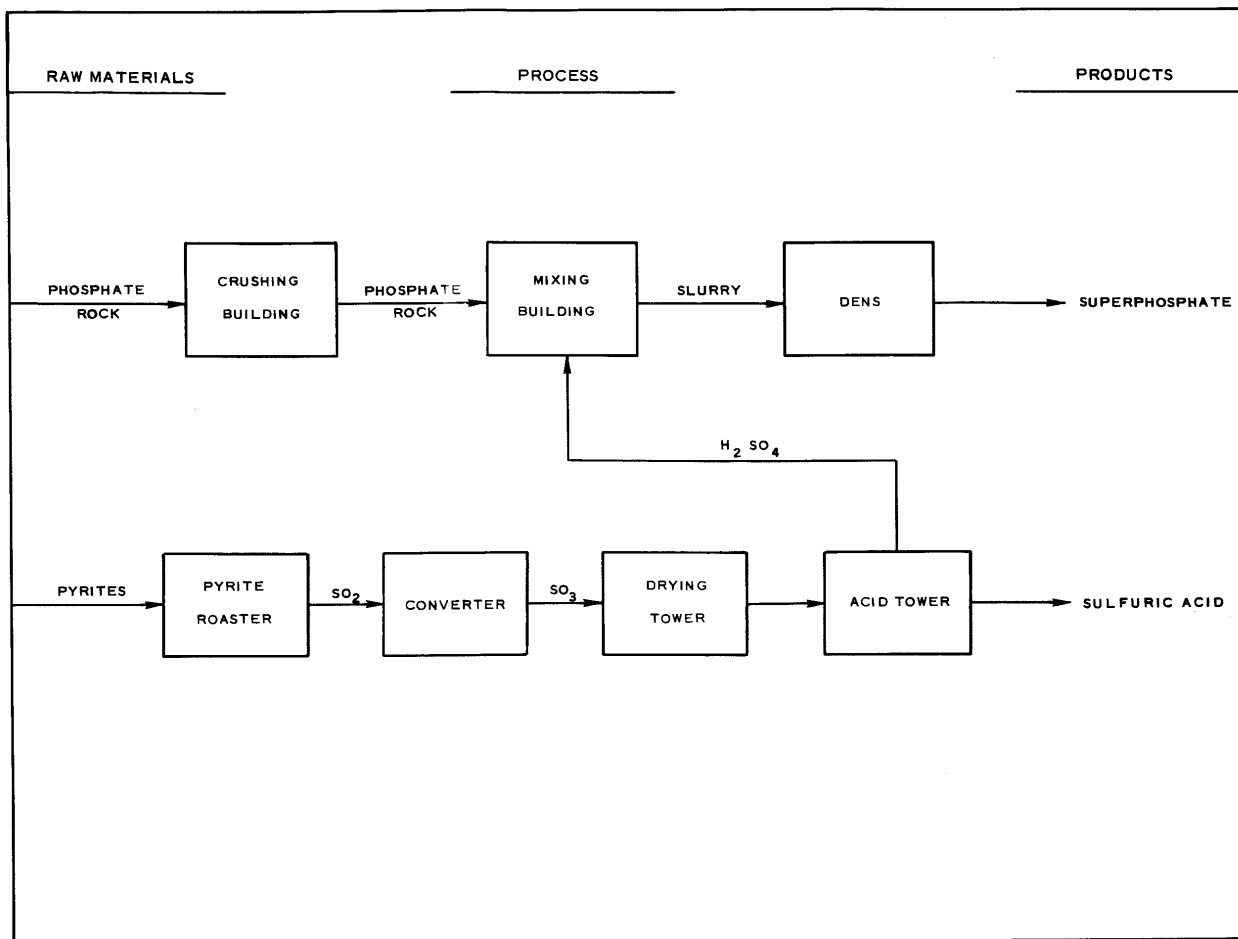


FIGURE 4. PROCESS FLOW AT CHI-NAN CHEMICAL PLANT.

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Operational Status

The operational status of the plant could not be determined in March 1959 due to the poor quality of the photography. By September 1963, unidentified production activity within the plant was indicated by fluctuations in the ore and coal stockpiles and in the number of rail cars within the plant area. The superphosphate production area was probably in operation by September 1968, when the mixing section and fertilizer warehouse were observed complete. The plant has been observed in operation on all coverages from September 1963 through June 1970. The primary indicator of production activity has been fluctuations in the ore stockpile.

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Map

8th RTS. US Air Target Chart, Series 200, Sheet M0381-21HL, 4th edition, September 1969, Scale 1:200,000 (SECRET

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Documents

1. CIA. FDD Summary 2334, Weekly Information Report 275, Tsinan Chemical Plant (from Ta-chung Jih Pao, Tsinan), 2 January 1959
(OFFICIAL USE ONLY)

2. 6004th AISS. Chinan Chemical Industry Plant, 12 August 1958
(UNCLASSIFIED)

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Requirement

COMIREX N02

Support Number 421938

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